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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,782	10/03/2003	Richard R. Roesler	PO-7926/MD-99-44	3887
157	7590 08/25/2004		EXAM	INER
BAYER MATERIAL SCIENCE LLC 100 BAYER ROAD PITTSBURGH, PA 15205			TRUONG, DUC	
			ART UNIT	PAPER NUMBER
			1711	
			DATE MAILED: 08/25/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/678,782	ROESLER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Duc Truong	1711			
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may bely within the statutory minimum of d will apply and will expire SIX (6) No the cause the application to become	thirty (30) days will be considered timely. ONTHS from the mailing date of this communication.			
Status					
1) Responsive to communication(s) filed on	•				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C	C.D. 11, 453 O.G. 213.			
Disposition of Claims		,			
4) Claim(s) 1-4 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-4</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement				
Application Papers	or oreston requirement.				
9) The specification is objected to by the Examin					
10) The drawing(s) filed on is/are: a) acc	cepted or b) dbjected t	o by the Examiner.			
Applicant may not request that any objection to the	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct	ction is required if the drawir	ng(s) is objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attach	ed Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreigna) ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Burea	u (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies no	t received.			
Attachment(s)					
Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date			
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>0820</u> .	5)	Informal Patent Application (PTO-152)			
Patent and Trademark Office OL-326 (Rev. 1-04) Office Ac	ction Summary	Part of Paper No./Mail Date 0820			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wicks'012 or Zwienner'741 or '170 of record on 1449 or Chem Abstract 98: 198688.

Wicks discloses a polyurea coating comprising at least one compound of the formula (I) by reacting primary amines of the formula (II) with maleic or fumaric acid esters of the formula (III) (see col. 4, line 50 et seq.; col. 5, lines 7-47) under cited conditions (see col. 5, lines 48-58).

The reference further discloses the coating composition comprising a polyisocyanate and said compound (see Abstract, col. 1, line 65 et seq.), as stated above, to form a binder (see col. 6, line 23 et seq.), polyurethane and polyurea coatings—(see col. 6, line 65 et seq.).

Zwienner'741 or '170 discloses an isocyanate reactive component containing at least one compound of the formula (I) by reacting primary amines (II) with maleic or fumaric acid esters of the formula (III) (see col. 4, line 38 et seq. of '741; col. 4, line 31 et seq. of '170) under cited conditions (see col. 5, lines 4-20 of '741; col. 4, line 64 et seq. of '170).

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The references further disclose a process for the production of polyurethane coatings, binders (see col. 6, line 1 of '741; col. 5, line 60 of '170) using said component.

The disclosures of the references differs from the instant claims in that they do not disclose the claimed formula derived from the reaction products of primary amines with maleic or fumaric acid esters then with an oxirane compound comprising alkylene oxide.

However, the references do disclose the reaction products of primary polyamines with maleic or fumaric acid esters under the same conditions. Further, the references do disclose the use of polyether polyols by the alkoxylation of starting materials, and suitable for the preparation of the isocyanate group containg prepolymers and semi-prepolymers, comprising alkylene oxide such as ethylene and/or propylene oxide which may be introduced into the alkoxylation in any sequence or as a mixture (see Wicks, col. 4, lines 28-41; col. 3, line 60 onto col. 4, line 4 of '741; col. 3, lines 53-65 of '170).

Therefore, it would have been obvious to one of ordinary skill in the art to react the reaction product of primary polyamines with maleic or fumaric acid esters then with alkylene oxide to form the claimed aspartate of the claimed formula since the references clearly disclose that the alkylene oxide can be added in any sequence, in the absence of a showing of unexpected results derived from said selection.

Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chem Abstract 98: 198688.

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The reference discloses derivative of N-(p-aminobenzoyl)-L-aspartic acid under the claimed conditions to form the same or similar products.

However, the reference does not disclose the general claimed formula. However, it does disclose specific formula which is included in the broad formula. Therefore, it would have been obvious to one of ordinary skill in the art to select reactants under conditions to form the product of the claimed formula since they have been shown to be effective in a similar system and thus would have been expected to provide adequate results. There is no showing of unexpected results derived from said use.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Truong whose telephone number is 571-272-1081. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUCTRUONG PRIMARY EXAMINER